

**HORED** 丰润达®

**8-Port 2.5G L3 Managed  
Ethernet PoE Switch  
PS3008XGPSH**

**Product Brochure**

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## Product Introduction:

PS3008XGPSH is a three-layer managed POE switch designed specifically for security transmission and WIFI coverage. The maximum power of a single port meets the 90W BT standard and can meet the POE power supply needs of various types of devices such as WIFI AP&bridge, IP camera, IP phone, etc. The product adopts a new generation of high-performance hardware and software platforms, providing flexible and cost-effective 2.5G access and 10 Gigabit uplink ports. It supports three-layer routing protocols, complete security protection mechanisms, comprehensive ACL/QoS policies, and rich VLAN functions, making it easy to manage and maintain, meeting users' networking needs for easy management, high security, and high-density network equipment. It is an ideal choice for various commercial network applications.



# Main Features:

## Port 6KV lightning protection

- All ports support 6KV lightning protection, PSE short-circuit protection, PoE overload, power supply over-temperature protection, over-voltage protection, surge current protection and other protection features.

## Advanced hardware architecture design, powerful processing capability

- Realtek high-performance switching chips are used to meet the application requirements of various complex scenarios, greatly improve the network data processing rate, and prevent data transmission from being stuck.

## Powerful business processing capabilities

- Support 802.1Q VLAN, MAC VLAN, IP VLAN, users can flexibly divide VLAN as needed.
- Support QoS, 8 port queues, support port priority, 802.1P priority, DSCP priority, support SP, WRR, SP+WRR, WFQ priority scheduling algorithm.
- Support ACL, support L2 (Layer 2) ~ L4 (Layer 4) packet filtering function, provide flexible and secure access control policy.
- Support IGMP v1/v2/v3 Snooping, MLD v1/v2 Snooping to meet the requirements of multi-terminal HD video surveillance or video conference.
- Supports the fast leave mechanism and querier of Layer 2 multicast, supports Layer 2 IPv4 static multicast and Layer 2 IPv6 static multicast.
- Support RIP dynamic routing protocol, solve the routing problem after the small and medium-sized network is divided into subnets, and simplify the network configuration.
- Support static routing protocol, and manually configure routing entries to realize communication between different network segments.
- Support ARP configuration, so that hosts in different physical networks on the same network segment can communicate normally.

## Perfect security mechanism

- Complete security authentication mechanism: It supports IEEE 802.1x, Radius, Tacacs+, etc., and can provide users with a complete security authentication mechanism.
- The perfect loop detection mechanism can ensure the stable operation of the network for a long time.
- Provide port isolation in the same VLAN, and security features such as DHCP-Snooping, IP+MAC+port binding, etc., to further ensure user data security.
- Support ARP protection, IP source protection, DoS protection.
- Support to restrict user access based on port number, IP address, and MAC address.

## Perfect POE power supply function

- Support the 802.3af/at/bt standard, with a maximum single port support of 90W output and a built-in power supply, meeting the requirements of POE scenarios such as security monitoring, wireless coverage, and IP phone.
- Support PoE power limit and set PoE port priority. When the power exceeds the limit, priority is given to ensuring power supply to the high priority ports.
- Support the setting of PoE power supply time periods, and users can control the time period of POE power supply according to their own needs.
- Support PoE chip status viewing, allowing users to view real-time parameters such as PoE chip temperature and output power through a web page.

## Flexible and convenient management and maintenance

- Supports various management methods such as Console, Telnet, and SSH.
- Support WEB network management (HTTP, HTTPS, SSL V3), which is simpler and more efficient, and is convenient for users to install and debug.
- Supports file upload and download management in TFTP mode.
- Support SNMP V1/V2/V3 to facilitate device management through the network management platform.
- Support one-stop management and maintenance of FengrunDa Apollo cloud platform, which can realize all-round remote operation and maintenance such as automatic device discovery, network topology management, and remote configuration management of devices.

## Product Specifications:

Hardware Specifications:	
<b>Networking Interface</b>	<ul style="list-style-type: none"> <li>• 8*1000M/2.5G RJ45 ports (POE)</li> <li>• 2*10G electric ports</li> <li>• 2*10G SFP+ ports</li> <li>• 1*Console port</li> </ul>
<b>Network Protocol</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ad, IEEE 802.3x, IEEE 802.1p, IEEE 802.1q, IEEE 802.1d, IEEE 802.1s, IEEE 802.1w, IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt</li> </ul>
<b>Performance</b>	<ul style="list-style-type: none"> <li>• Bandwith: 120Gbps</li> <li>• Packet forwarding rate: 89.3Mpps</li> <li>• MAC table size: 16K</li> <li>• Port buffer: 12Mb</li> <li>• Forwarding type: Storage and forwarding</li> </ul>
<b>LED Indicator</b>	<ul style="list-style-type: none"> <li>• 12*Link/Act indicator</li> <li>• 8*PoE indicator</li> <li>• 1*Power indicator</li> <li>• 1*SYS indicator</li> </ul>
<b>POE Pin</b>	<ul style="list-style-type: none"> <li>• 1/2 (+) , 3/6 (-)</li> </ul>
<b>Power Supplier</b>	<ul style="list-style-type: none"> <li>• Power input: AC 100-240V/50-60Hz</li> <li>• Single port MAX. power: 1-8 ports 90W</li> <li>• PoE budget: 250W</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>• W*D*H: 440mm×320mm×44mm</li> </ul>
<b>Environment</b>	<ul style="list-style-type: none"> <li>• Operating temperature: 0°C~40°C</li> <li>• Storage temperature: -40°C~70°C</li> <li>• Operating humidity: 10%~ 90% RH non condensing</li> <li>• Storage humidity: 5%~90% RH non condensing</li> </ul>
<b>Safe Regulation</b>	<ul style="list-style-type: none"> <li>• CE/ROHS/FCC</li> </ul>

<b>Software Specifications:</b>	
<b>Protocol Standards</b>	<p>IEEE 802.3:Ethernet media access control (MAC)</p> <p>IEEE 802.3i:10BASE-T Ethernet</p> <p>IEEE 802.3u:100BASE-TX Fast Ethernet</p> <p>IEEE 802.3ab:1000BASE-T Gigabit Ethernet</p> <p>IEEE 802.3z:1000BASE-X Gigabit Ethernet (optical fiber)</p> <p>IEEE 802.3ad:Standard method of link aggregation</p> <p>IEEE 802.3x:Flow control</p> <p>IEEE 802.1p:LAN layer 2 qos/cos protocol related to traffic priority (multicast filtering function)</p> <p>IEEE 802.1q:VLAN Bridge operation</p> <p>IEEE 802.1d:STP Spanning tree</p> <p>IEEE 802.1s:MSTP Spanning tree</p> <p>IEEE 802.1w:RSTP Spanning tree</p> <p>IEEE 802.3af/at/bt</p>
<b>L3 Interface</b>	<p>Support L3 interface</p> <p>Support IPV4,IPV6 addresses configuration</p> <p>Support ARP configuration</p> <p>Support ND configuration</p>
<b>L3 Routing</b>	<p>Support IPV4 static routing</p> <p>Support IPV4 RIP v1/v2</p> <p>Support IPV4 OSPFv2</p> <p>Support IPV6 static routing</p> <p>Support IPV6 RIPng</p> <p>Support IPV6 OSPFv3</p>

<b>Software Specifications:</b>	
<b>VLAN</b>	Support 4K VLAN Support 802.1Q VLAN,MAC VLAN ,IP VLAN, Voice VLAN
<b>DHCP</b>	Support DHCP server Support DHCP relay Support DHCP Snooping
<b>MAC Table</b>	Support IEEE 802.1d standard Support MAC addresses automatic learning and aging Support static, dynamic and filtered address tables
<b>Security Features</b>	Password guard Support restricting user access based on port number, IP address and MAC address Support HTTPS,SSL V3,TLS V1,SSH V1/V2 Support IP-MAC-PORT ternary binding Support ARP protection, IP source protection, DOS protection Support DHCP Snooping,DHCP Attack protection Support 802.1X certification,AAA Support Port security, port isolation Support CPU Protection function
<b>POE</b>	Support PoE power limit Support PoE chip status check Support setting PoE port priority Support setting PoE power supply time period Support intelligent power supply
<b>ACL</b>	Support L2(Layer 2) ~ L4(Layer 4) packet filtering function Support Port mirroring, flow speed restriction, QoS re marking
<b>QoS</b>	Support 8 port queues Support port priority, 802.1p priority, DSCP priority Support SP,WRR,SP+WRR,WFQ priority scheduling
<b>STP</b>	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s) standard Support Loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering Support optical port 50ms switching

<b>Software Specifications:</b>	
<b>Multicast</b>	<ul style="list-style-type: none"> <li>Support IGMP v1/v2/v3 Snooping</li> <li>Support MLD v1/v2 Snooping</li> <li>Support Fast leave mechanism and querier of layer 2 multicast</li> <li>Support Layer 2 IPv4 static multicast</li> <li>Support Layer 2 IPv6 static multicast</li> <li>Support IGMP v1/v2/v3 layer 3 multicast</li> </ul>
<b>Storm Suppression</b>	<ul style="list-style-type: none"> <li>Support Multicast suppression</li> <li>Support Broadcast suppression</li> <li>Support Unknown unicast suppression</li> </ul>
<b>LACP</b>	<ul style="list-style-type: none"> <li>Support Static convergence</li> <li>Support Dynamic convergence</li> <li>Support based on IP, MAC and mixed load balancing mode</li> <li>Support 32 aggregation groups at most</li> </ul>
<b>IPv6</b>	<ul style="list-style-type: none"> <li>Support IPv6 Ping,IPv6 Tracert,IPv6 Telnet</li> <li>Support IPv6 SSH,IPv6 SSL</li> </ul>
<b>Network management</b>	<ul style="list-style-type: none"> <li>Support WEB management (HTTP,HTTPS,SSL V3)</li> <li>Support CLI (Telnet,SSH V1/V2,local serial port)</li> <li>Support SNMP V1/V2/V3</li> <li>Support RMON V1/V2</li> <li>Support LLDP device discovery</li> <li>Support NTP time synchronization</li> <li>Support DNS Client</li> <li>Support CPU Monitoring, memory monitoring</li> <li>Support System log, classification warning</li> <li>Support Ping,Tracert Detection, cable detection</li> <li>Support Apollo cloud platform one-stop management and maintenance</li> </ul>

## Networking application:

